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January 21, 2004

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Application No. : **2,363,394**
Owner : **LIGHTSCAPE NETWORKS LTD.**
Title : **METHOD AND DEVICE FOR HANDLING OPTICAL PULSE SIGNALS**
Classification : **H03K-5/00**
Your File No. : **08893274CA**
Examiner : **Andrew O'Malley**

YOU ARE HEREBY NOTIFIED OF :

- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE PATENT RULES;
- A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SECTION 29 OF THE PATENT RULES.

IN ORDER TO AVOID MULTIPLE ABANDONMENTS UNDER PARAGRAPH 73(1)(A) OF THE PATENT ACT, A WRITTEN REPLY TO EACH REQUISITION MUST BE RECEIVED WITHIN SIX MONTHS AFTER THE ABOVE DATE.

This application has been examined as originally filed.

The number of claims in this application is 33.

A search of the prior art has revealed the following:

References Applied**United States Patents**

6,178,035	Jan. 23 2001	G02F-1/35	EDA et al.
6,047,011	Apr. 4 2000	H01S-3/10	COOK
5,166,942	Nov. 24 1992	H01S-3/10	CARDIMONA et al.

EDA et al. teach an optical device for harmonic conversion.

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COOK teaches a harmonic generating system.

CARDIMONA et al. teach a method for coupling laser beams in a Kerr medium.

Obviousness

Claim 1 recites a method for handling an optical pulse signal by either of pulse shaping, treatment of nonlinearity, or monitoring; wherein a signal handling device is provided which is capable of second harmonic generation by selecting a suitable optical path length for said device; and an output from said device is obtained, either as a signal pulse shaped or treated for nonlinearity, or as a second harmonic signal.

EDA et al. discuss an optical device having an optical path chosen for the purpose of obtaining higher harmonics (column 1, line 10 to column 2, line 47).

COOK discloses a harmonic generator system which generates at least two output beams of higher order harmonic radiation from an input beam (abstract).

In view of EDA et al. and COOK, a method for handling an optical pulse, which involves providing a signal handling device capable of performing harmonic generation via a selected optical path length and which outputs an optical signal at a second harmonic, as recited by claim 1 of the current application, would have been obvious on the claim date to someone skilled in the art of optical pulse shaping.

Claims 2, 3, and 4, pertaining to details of selecting the optical path length in regards to desired power levels would also be obvious in view of EDA et al., where design of a signal handling device for increasing output power is discussed (column 2, lines 32 to 47).

Claims 5 and 6 recite the use of a multi-segment and "zig-zag" trajectory, akin to the device disclosed by EDA et al. (figure 30).

Claims 7 recites the method of claim 2 wherein the Kerr effect of the signal handling device is negative.

CARDIMONA discloses a method for coupling laser beams, wherein the Kerr constant may be selected as either positive or negative (claim 1).

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Claim 7 is thereby obvious with additional reference to CARDIMON, et al.

Implementation details recited by claims 8, 9, 10, 11, and 12, pertaining to multiple signal handling devices and multiple channels are not found to be patentably distinguishing features.

In view of the above and the state of the art on the claim date, claims 13 to 33 are similarly found to be obvious.

Accordingly, claims 1 through 33 of the current application do not comply with subsection 28.3 of the Patent Act.

In view of the foregoing defects, the applicant is requisitioned, under Subsection 30(2) of the Patent Rules, to amend the application in order to comply with the Patent Act and the Patent Rules or to provide arguments as to why the application does comply.

Under Section 29 of the *Patent Rules*, applicant is requisitioned to provide an identification of any prior art cited in respect of the European Patent Office application describing the same invention on behalf of the applicant, or on behalf of any other person claiming under an inventor named in the present application, and the patent number, if granted. Amendment to avoid references cited abroad may expedite the prosecution.

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